

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/ 03/08997

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04B10/148 H04J14/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04B H04J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 445 943 A (AMERICAN TELEPHONE & TELEGRAPH) 11 September 1991 (1991-09-11) page 5, line 48 - line 50 page 6, line 4 - line 23 page 6, column 34 - page 7, column 16 figures 1,2	1,2
A	EP 0 564 167 A (AMERICAN TELEPHONE & TELEGRAPH) 6 October 1993 (1993-10-06) column 1, line 19 - line 31 column 4, line 16 - line 21 column 4, line 56 - line 58 column 7, line 14 - line 17 column 8, line 24 - line 37 figures 1,6 column 3, line 54 - line 56 --- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

22 January 2004

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30/01/2004

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Cochet, B

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 008 958 A (CIMINI JR LEONARD J ET AL) 16 April 1991 (1991-04-16) figure 3A -----	1

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			DE 69122285 T2	20-03-1997
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			DE 69328645 T2	11-01-2001
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